

Title (en)  
THERMAL AIR FLOW METER

Title (de)  
THERMISCHER DURCHFLUSSMESSER

Title (fr)  
DEBIMETRE D'AIR THERMIQUE

Publication  
**EP 1014046 A1 20000628 (EN)**

Application  
**EP 96930393 A 19960913**

Priority  
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• US 25415099 A 19990226

Abstract (en)  
To perform with high accuracy the analog-to-digital conversion of signals of an air flow meter irrespective of fluctuation of a reference voltage of an analog-to-digital conversion circuit. A thermal type air flow meter including means for measuring an intake air flow rate by heating and controlling a heating resistor and means for performing analog-to-digital conversion of an air flow rate signal of the air flow rate measurement means, which inputs a reference voltage to the analog-to-digital conversion circuit so that the reference voltage can be converted from the analog signal to the digital signal by the analog-to-digital conversion circuit, and the air flow rate signal can be corrected in accordance with the value of the reference voltage. A/D conversion of the air flow rate signal can be executed accurately even when the voltage of the reference voltage source of the A/D converter in an electrical control unit is fluctuating. <IMAGE>

IPC 1-7  
**G01F 1/68**; **F02D 45/00**

IPC 8 full level  
**F02D 45/00** (2006.01); **G01F 1/68** (2006.01); **G01F 1/696** (2006.01); **G01F 1/698** (2006.01)

CPC (source: EP US)  
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